



CASE 4:31612A/USN

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Art Unit: 1614

COHEN ET AL.

APPLICATION NO: 09/964,899

FILED: SEPTEMBER 27, 2001

FOR: IDENTIFICATION OF GENES INVOLVED IN ALZHEIMER'S
DISEASE USING DROSOPHILA MELANOGASTER

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Diane Tso", written over a horizontal line.

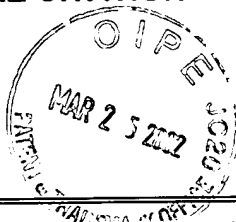
Diane Tso
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,795,963	8/18/98	Mullan			
	AB	5,811,633	9/22/98	Wadsworth et al.			
	AC	5,840,540	11/24/98	St. George-Hyslop et al.			
	AD	5,891,991	4/6/99	Wasco et al.			
	AE	5,986,054	11/16/99	St. George-Hyslop et al.			
	AF						
	AG						
	AH						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM	WO 01/85912 A2	11/15/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AN	WO 94/00569	1/6/94	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AO	WO 98/54300	12/3/98	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Abrams et al., "Programmed cell death during Drosophila embryogenesis," Development, Vol. 117, pp. 29-43 (1993)
	AS	Abstract, Finelli et al., "Alzheimer's Abeta peptide induces rough eye phenotype in Drosophila," 42nd Annual Drosophila Research Conference, March 2001
	AT	Abstract, Finelli et al., "Beta-Amyloid Induced Neurodegeneration in the Drosophila Eye," Neurobiology of Drosophila, CSHL October 2001

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

AA	Abstract, Finelli et al., "Genetic analysis of Alzheimer's-related pathways in Drosophila," Therapeutic Opportunities in Neurodegenerative Diseases, CSHL 2000
AB	Abstract, Lanoue et al., "Dominant phenotypes caused by overexpression of human amyloid precursor protein (APP) in flies," 41st Annual Drosophila Research Conference, March 2000
AC	Abstract, Lanoue, et al., "Dominant phenotypes caused by overexpression of human amyloid precursor protein (APP) in flies," World Alzheimer Congress 2000
AD	Anderton et al., "Does dysregulation of the Notch and wingless/Wnt pathways underlie the pathogenesis of Alzheimer's disease? Molecular Medicine Today, Vol. 6, pp. 54-59 (2000)
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AH	Bertram et al., "Evidence for Genetic Linkage of Alzheimer's Disease to Chromosome 10q," Science, Vol. 290, pp. 2302-2303 (2000)
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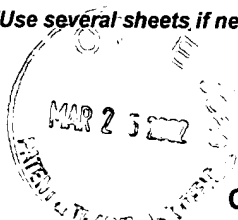
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AE	Citron et al., "Excessive production of amyloid beta-protein by peripheral cells of symptomatic and presymptomatic patients carrying the Swedish familial Alzheimer disease mutation," Proc. Natl. Acad. Sci., Vol. 91, pp. 11993-11997 (1994)
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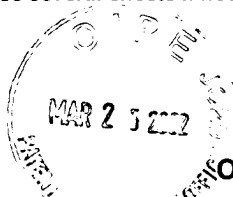
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AE	Engels, W.R., "A trans-Acting Product Needed for P Factor Transposition in Drosophila," Science, Vol. 226, pp. 1194-1196 (1984)
AF	Ertekin-Taner, et al., "Linkage of Plasma ABeta42 to a Quantitative Locus on Chromosome 10 in Late-Onset Alzheimer's Disease Pedigrees," Science, Vol. 290, pp. 2303-2304 (2000)
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AI	Flucher et al., "Distribution of Na ⁺ Channels and Ankyrin in Neuromuscular Junctions is Complementary to That of Acetylcholine Receptors and the 43 kd Protein," Neuron, Vol. 3, pp. 163-175 (1989)
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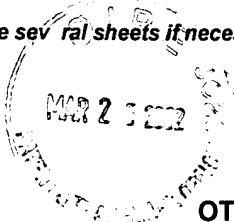
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AG	Guo et al., "Drosophila presenilin Is Required for Neuronal Differentiation and Affects Notch Subcellular Localization and Signaling," The Journal of Neuroscience, Vol. 19(19), pp. 8435-8442 (1999)
AH	Guo et al., "Physical and genetic interaction of filamin with presenilin in Drosophila," Journal of Cell Science, Vol. 113, pp. 3499-3508 (2000)
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AJ	Hartley et al., "Protofibrillar Intermediates of Amyloid Beta-Protein Induce Acute Electrophysiological Changes and Progressive Neurotoxicity in Cortical Neurons," The Journal of Neuroscience, Vol. 19(20), p. 8876-8884 (1999)
AK	Hartmann et al., "Distinct sites of intracellular production for Alzheimer's disease ABeta40/42 amyloid peptides," Nature Medicine, Vol. 3(9), pp. 1016-1020 (1997)
AL	Hay et al., "Expression of baculovirus P35 prevents cell death in Drosophila," Development, Vol. 120, pp. 2121-2129 (1994)
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AA	Hellstroem-Lindahl E., "Modulation of beta-amyloid precursor protein processing and tau phosphorylation by acetylcholine receptors," <i>European Journal of Pharmacology</i> , Vol. 393, pp. 255-263 (2000)
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AC	Hussain et al., "Identification of a Novel Aspartic Protease (ASp 2) as Beta-Secretase," <i>Molecular and Cellular Neuroscience</i> , Vol. 14, p. 419-427 (1999)
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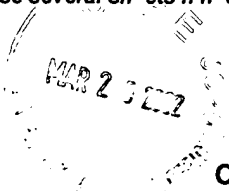
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AC	Kulic et al., "Separation of presenilin function in amyloid beta-peptide generation and endoproteolysis of Notch," Proc. Natl. Acad. Scie., Vol. 97(11), pp. 5913-5918 (2000)
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AE	Lambert et al., "Diffusible, nonfibrillar ligands derived from ABeta1-42 are potent central nervous system neurotoxins," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 6448-6453 (1998)
AF	Launer et al., "Regional Differences in the Incidence of Dementia in Europe: EURODEM Collaborative Analyses," In Iqbal, K., Swaab, D.F., Winblad, B. and Wisniewski, H.M. (Eds), Alzheimer's Disease and Related Disorders, pp. 9-15 (1999)
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AH	Lorenzo et al., "Beta-Amyloid neurotoxicity requires fibril formation and is inhibited by Congo red," Proc. Natl. Acad. Sci., Vol. 91, pp. 12243-12247 (1994)
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AI	Myers et al., "Susceptibility Locus for Alzheimer's Disease on Chromosome 10," Science, Vol. 290, pp. 2304-2305 (2000)
AJ	Näslund et al., "Correlation Between Elevated Levels of Amyloid beta-Peptide in the Brain and Cognitive Decline," J.A.M.A., Vol. 283, pp. 1571-1577 (2000)
AK	Ninkina et al., "Organization, expression and polymorphism of the human persyn gene," Human Molecular Genetics, Vol. 7(9), pp. 1417-1424 (1998)
AL	Okamoto et al., "Ligand-dependent G Protein Coupling Function of Amyloid Transmembrane Precursor," The Journal of Biological Chemistry, Vol. 270(9), pp. 4205-4208 (1995)
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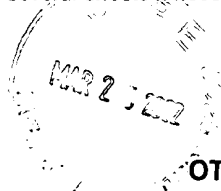
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AB	Pradier et al., "Mapping the APP/Presenilin (PS) Binding Domains: The Hydrophilic N-Terminus of PS2 is Sufficient for Interaction with APP and Can Displace APP/PS1 Interaction," Neurobiology of Disease, Vol. 6, pp. 43-55 (1999)
AC	Price, D., "New order from neurological disorders," Nature, Vol. 399, pp. A3-A5 (1999)
AD	Qiu et al., "Degradation of Amyloid Beta-Protein by a Serine Protease-Alpha Macroglobulin Complex," The Journal of Biological Chemistry, Vol. 271(14), pp. 8443-8451 (1996)
AE	Robertson et al., "A Stable Genomic Source of P Element Transposase in Drosophila melanogaster," Genetics, Vol. 118, pp. 461-470 (1988)
AF	Rorth et al., "Systematic gain-of-function genetics in Drosophila," Development, Vol. 125(6), pp. 1049-1057 (1998)
AG	Rosen et al., "A Drosophila gene encoding a protein resembling the human beta-amyloid protein precursor," Proc. Natl. Acad. Sci., Vol. 86, pp. 2478-2482 (1989)
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AN	Sherrington et al., "Cloning of a gene bearing missense mutations in early-onset familial Alzheimer's disease," Nature, Vol. 375, pp. 754-760 (1995)

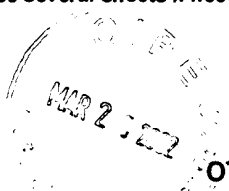
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AA	Sinha et al., "Purification and cloning of amyloid precursor protein beta-secretase from human brain," Nature, Vol. 402(2), pp. 537-540 (1999)
AB	Skovronsky et al., "Detection of a Novel Intraneuronal Pool of Insoluble Amyloid Beta Protein that accumulates with Time in Culture," J. Cell Biol., Vol. 141, pp. 1031-1039 (1998)
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AD	Spradling et al., "The Effect of Chromosomal Position on the Expression of the Drosophila Xanthine Dehydrogenase Gene," Cell, Vol. 34, pp. 47-57 (1983)
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AM	Timmerman et al., "Novel missense mutation in the early growth response 2 gene associated with Dejerine-Sottas syndrome phenotype," Neurology, Vol. 52, pp. 1827-1832 (1999)
AN	Torreja et al., "Neuronal overexpression of APPL, the Drosophila homologue of the amyloid precursor protein (APP), disrupts axonal transport," Current Biology, Vol. 9(9), pp. 489-492 (1999)

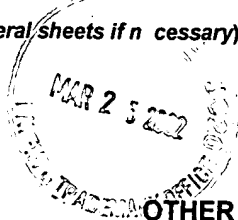
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AA	Torroja et al., "The Drosophila beta-Amyloid Precursor Protein Homolog Promotes Synapse Differentiation at the Neuromuscular Junction," The Journal of Neuroscience, Vol. 19(18), pp. 7793-7803 (1999)
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AN	Wyss-Coray et al., "TGF-Beta1 promotes microglial amyloid-beta clearance and reduces plaque burden in transgenic mice," Nat. Med., Vol. 7(5), 612-618 (2001)

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